DVB-T2 DIGITAL TV BOX

QUALITY OF DIGITAL TELEVISION

MT4159

User Manual

EN

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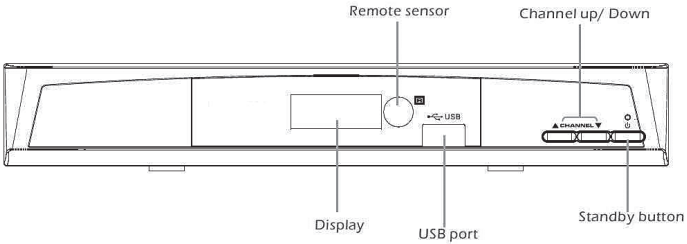
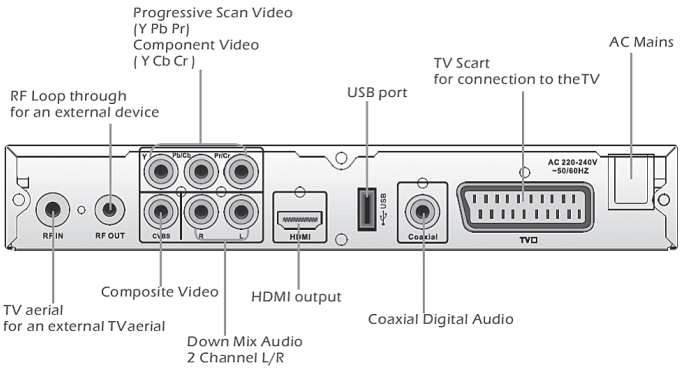
Introduction

Front panel



Rear panel



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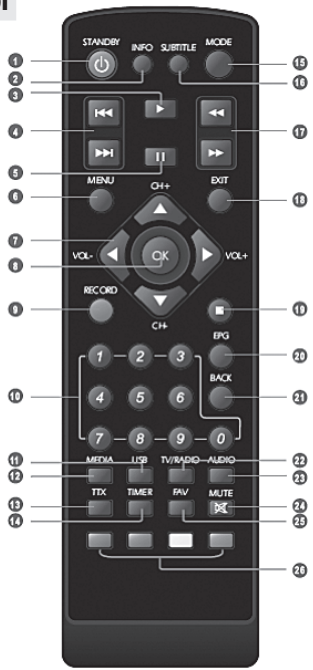
Remote control



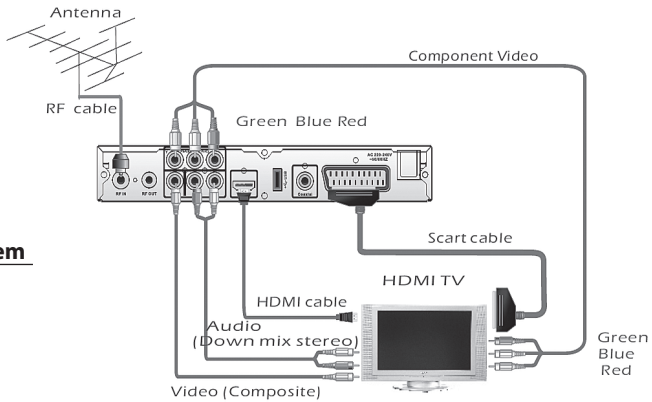
1. STANDBY On/Off
2. INFO (active channel information)
3. PLAY
4. Previous / Next
5. PAUSE / TimeShift
6. MENU (Main Menu)
7. VOL- (Volume Down) / VOL+ (Volume Up) / CH- (Previous Channel) / CH+ (Next Channel) / Menu Navigation (Left, Right, Up, Down)
8. OK (Confirm option)
9. RECORD
10. Numeric keys
11. USB Menu
12. MEDIA Menu
13. TTX (Teletext)
14. TIMER
15. MODE (switch RGB/CVBS mode)
16. SUBTITLE (On/Off)
17. BACKWARD, FORWARD - fast scanning
18. EXIT
19. STOP (stop playing / recording)
20. EPG (Electronic Programme Guide)
21. BACK (Previous Channel)
22. TV/RADIO
23. AUDIO (choose audio track)
24. MUTE (On/Off)
25. FAV (Favourite Channel Playlist)
26. RED/GREEN/YELLOW/BLUE – interactive buttons / submenu / Teletext Navigation

Hardware configuration

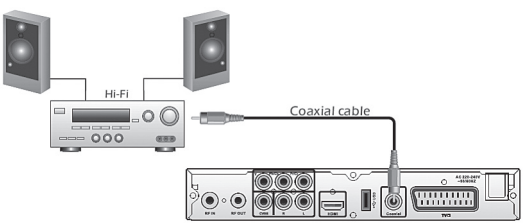
The MT4159 DVB-T tuner can work with several devices. Most common configurations are shown below.

Connecting tuner to a TV

Connect tuner to your TV with SCART, HDMI, component or composite cable as shown below. **Note: Use only one type of connection!**



Connecting with Hi-Fi audio system



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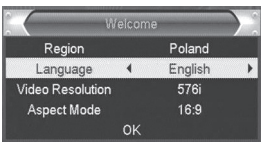
Software Configuration

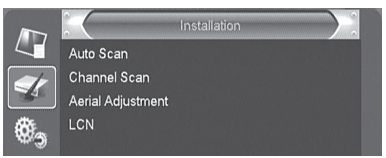
Startup Menu

If you first time turn on tuner there will be shown "Welcome" menu Then with navigation keys setup major options: **REGION, LANGUAGE, DISPLAY MODE, ASPECT MODE** and confirm with **"OK"**.



Installation Menu

1. Press MENU button on the remote.
2. With UP/DOWN keys choose „Installation" menu, press RIGHT to accept.
3. Use UP/DOWN to select proper submenu and press OK
4. Press EXIT to leave menu.



Automatic Channel Scanning (Auto Scan)

1. Select „Auto Scan" option and press OK.
2. Using navigation keys choose "FTA Only – Yes or No" option.
3. Choose „Search" option and press OK to start scanning available channels.

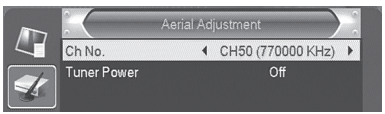
Manual Channel Scanning

1. Choose „Channel Scan" menu and press OK
2. Use direction buttons to switch between „Scan Mode –By channel" and „Scan Mode – By frequency".

Choose „Scan Band", primary channel number „Ch No." and confirm „Search" option by pressing "OK".

Aerial Adjustment

1. Choose „Aerial Adjustment" menu and press "OK".
2. Switch between „Tuner Power" – ON/OFF. When this option is turned "On" there is +5V voltage on antenna socket. If you do not use aerial that requires +5V power supply set this option to "Off".



Logical Channel Number

When "Logical Channel Number" option is active you cannot change channel number manually. When it is turned off you can assign any number to available channel.

Watching TV

Changing channels

You can select the channel you wish to watch in 3 ways:

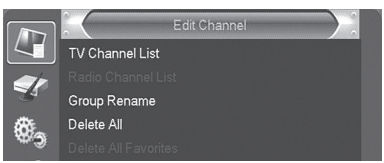
1. By pressing CH- / CH+ buttons on remote.
2. Enter channel number manually by numeric keys on remote.
3. Choose channel from channel list on the menu.

Using Electronic Programme Guide (EPG)

1. Press EPG button on remote.
2. Use directional keys to explore list of available channels
3. Press GREEN button to enter „Timer Events".
4. Press RED button to enter „Step time" menu.

Edit Channel Menu

1. Press MENU button on remote to enter main menu.
2. Use UP/DOWN keys to highlight „Edit Channel" option, next press RIGHT button to continue
3. Use UP/DOWN keys to select an item and press OK.
4. Press EXIT to leave menu.



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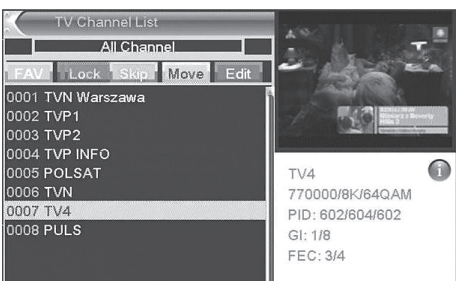
TV Channel list

1. Choose „Edit Channel" menu and select „TV Channel List" option by pressing OK.
2. Use UP/DOWN keys to select proper channel and press OK to show channel view.
3. Use color buttons on remote to access available options:

„LOCK" – to lock the channel position,
„SKIP" – to mark channel to be skipped while watching,
„MOVE" – move channel position on the list,
„SORT" – to sort channel list,
„DELETE" – to delete channel from list,
„RENAME"- to change channel description.

4. Press FAV button on remote to enter your favorite channel list and use color keys to edit list.

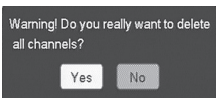


Radio Channel List

1. Choose „Radio Channel List" in „Edit Channel" menu and press OK.
2. Use UP/DOWN keys to select channel and press OK to listen selected radio station. In this mode preview window is not available.

Delete All Channels from list

1. From „Edit Channel" menu select „Delete All" and press OK.



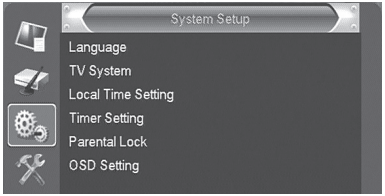
2. When confirm window appears choose „YES" to confirm operation or „NO" to cancel this operation.

System Properties

System Setup Menu

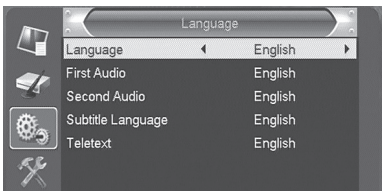
System properties will allow you to set language of your system menu, TV mode, local time, TV display mode, timer mode setup, parental lock, OSD settings and Favorite channel list.

1. Press MENU button on remote to enter main menu.
2. Use UP/DOWN keys to select „System Setup" menu, press RIGHT to continue.
3. Use UP/DOWN keys to select submenu and press OK.
4. To exit menu press EXIT button.



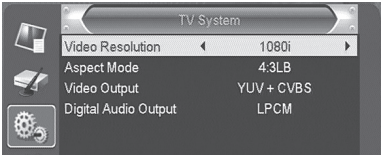
Changing Language

This option allows to change the language of menu, audio track, subtitles and teletext.



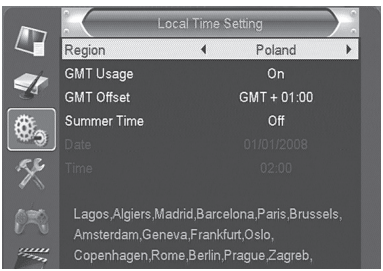
TV System Settings

- „Display mode" - available options: PAL/NTSC/AUTO
- „Aspect mode" (screen proportions): Auto / 4:3PS / 4:3LB / 16:9
- „Video output" – available options: CVBS / RGB
- „Digital Audio Output" (audio compression format): Bitstream / LPCM



Local Time Setting

- „Region": choose your country where you are receiving DVB-T TV signal
- „GMT Usage": „ON"/„OFF" automatic time correction
- „GMT Offset": available only if "GMT Usage" is turned on. Choose your GMT offset according the region of your country
- „Date" and „Time": manual date and time setting – available only if "GMT Usage" option is inactive.



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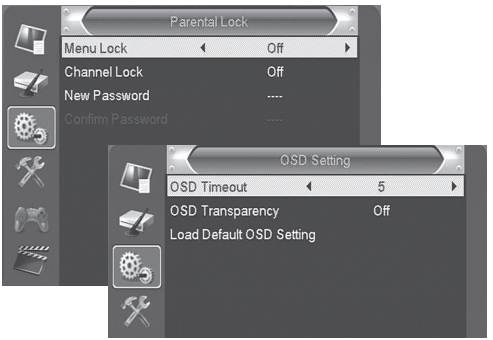
Timer Setting

- „Timer Mode" – available options: „OFF"/„ONCE"/ „Daily"
- „Timer Service" (set type of action): „Channel" (preview selected channel)/„Record" (recording selected channel).
- Wakeup Channel: choose channel that will be viewed after wake up.
- Wakeup Date: press OK and enter the date when the device will wake up using numeric keys.
- Wakeup Time: press OK and enter the time when the device will wake up using numeric keys.
- Duration: press OK and enter working time after wake up.

Parental Lock

1. Choose „System setup" menu and select „Parental Lock" option. Press OK and when you will be asked for password enter "0000"
2. When you enter correct password the menu will appear.

- „Menu Lock": „ON" – scanning and editing channels will be secured by password.
- „Channel Lock": „OFF" / „AGE10 / AGE12 / AGE16 / AGE18" auditions will be blocked for spectators under 10/12/16/18 years old.
- „New Password": change password.
- „Confirm Password": confirm new password.



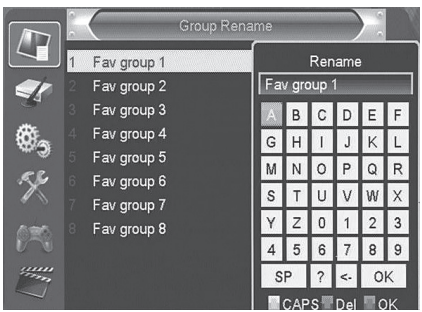
On-Screen Display Settings

- OSD Timeout: 1-10 seconds.
- OSD Transparency: available options: „OFF" / 10% / 20% / 30% / 40%.
- Load Default OSD setting: load default factory settings.

Favorite Channel Group

In this menu you can rename your favorite channel group.

1. In the „Channel menu" select „Favorite" option and press OK.
2. Choose the group with directional keys and press OK. Using on-screen keyboard enter new name of the group. Select OK on the screen.
3. To leave menu press EXIT.


Group Rename
1 Fav group 1
2 Fav group 2
3 Fav group 3
4 Fav group 4
5 Fav group 5
6 Fav group 6
7 Fav group 7
8 Fav group 8
Rename
Fav group 1
A B C D E F
G H I J K L
M N O P Q R
S T U V W X
Y Z 0 1 2 3
4 5 6 7 8 9
SP ? <- OK
CAPS Del OK

Tools Menu

1. Press MENU button on remote to enter main menu.
2. Using UP/DOWN keys select the „Tools" menu and press RIGHT button,
3. To select option use UP/DOWN keys and OK button.
4. To leave menu press EXIT.

Receiver information

This option shows information about firmware versions of all components.

1. In the „Tools" menu select „Receiver information" and press OK.
2. To leave menu press EXIT.

Load Factory Default

This option will set default factory settings and clear the channel list.

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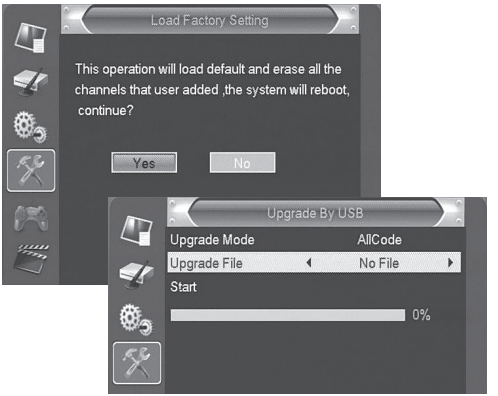
1. In the „Tools" menu select „Load Factory Default" option and press OK.
2. To confirm this operation select "YES".
3. To leave menu press EXIT.



Software Upgrade

1. In the "Tools" menu select „S/W Upgrade by OTA" or „Upgrade by USB" option and press OK.
2. Choose „Upgrade file" and select the firmware file.
3. Select „Start" and press OK.
4. To leave menu press EXIT.

Removing USB Device

In the „Tools" menu select „Remove USB device safely" option and press OK. Wait for confirmation and safely remove USB device.

Game

1. Press MENU button on remote to enter main menu.
2. Using UP/DOWN keys select the „Game" menu, press RIGHT button to enter menu.

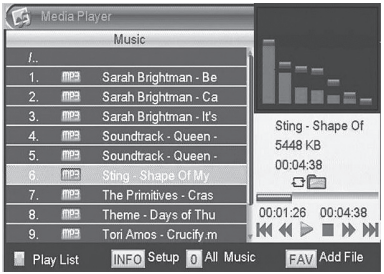
3. Choose game (Tetris / Othello / Sudoku) and press OK to play.
4. To leave the game press EXIT.

Recording and external Media Devices

1. Press MENU button on remote to enter main menu.
2. Highlight „REC & Media" using UP/DOWN keys, press RIGHT button to enter.
3. Select submenu with UP/DOWN keys and press OK.
4. To leave menu press EXIT.

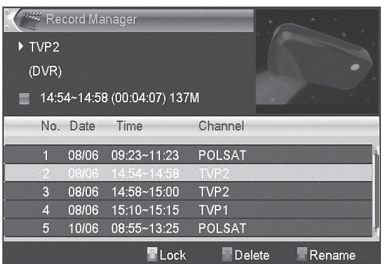
Media+ Explore External USB Device

1. In the „REC & Media" menu select „Media+" option and press OK.
2. Select the file to play with UP/DOWN keys and press OK.
3. To leave menu press EXIT.



Record Manager

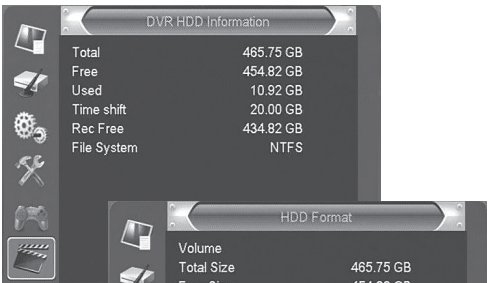
1. Select „Record Manager" in the „REC & Media" menu and press OK.



2. Select the file you want to play and press OK to preview.
3. To leave menu press EXIT.

USB Storage Device Information

1. Select „DVR HDD Information" option in the „REC & Media" menu and press OK.
2. To leave menu press EXIT.

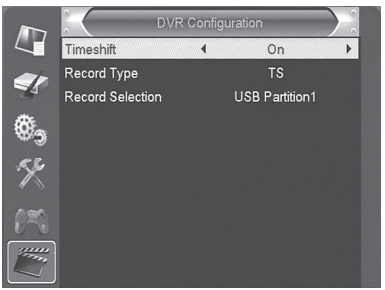


USB HDD Formatting

1. Select „HDD Format" in the „REC & Media" menu and pres OK.
2. Use UP/DOWN keys to select „Storage Partition" option and choose proper partition with RIGHT/LEFT keys.
3. Select „Format" option with UP/DOWN keys and press OK. Next choose „FAT32" or „NTFS" file system and press OK to confirm.

Recording Configuration

1. Select „DVR Configuration" option in the „REC & Media" menu and press OK.
2. Using UP/DOWN keys select desired option: „Timeshift"-„ON" / „OFF"



„Record Type": "TS / PS"
„TS" – recording with subtitles, teletext and EPG (video format supported only by MT4159 device).
„PS" – recording in MPEG video format (format supported by MT4159 and PC computer).

3. Using „Record selection" option choose USB partition to recording.
4. To leave menu press EXIT.

Note! Option „PS" is available for auditions broadcasted in MPEG-2 only.

Jump Time Settings

Using this option you can set up of jump time value using PREV / NEXT buttons.

- Select "Jump" option in the „REC & Media" menu and press OK.
- Use LEFT/RIGHT keys to choose a value of time: 30sec, 1 min, 5 min, 10 min, 30 min.

Recording with Timeshift

Timeshift option is available only for USB HDD/Flashdrive with not less than 2GB of capacity.

- timeshift allows rewind playback to moment of start recording
- with timeshift option turned on device will be recording till the end of free disk space.

Start Video Buffering

- During watching TV press PAUSE button on remote. The buffering of video will be started.
- Use LEFT/RIGHT keys to watch video at the desired time position. Press OK to confirm.

Preview with timeshift

- Press PAUSE button to hold on playing
- Press BACKWARD button to rewind playback
- Press FORWARD button to forward playback

Turning off timeshift function

Press STOP button to turn off timeshift function and start to watching real-time auditions.

Recording

- during watching TV press RECORD button on remote, recording will start.
- Press RECORD button again to hold on recording.
- Press STOP button and confirm with OK to stop recording.

Note! We recommend original USB Storage devices to prevent poor recording quality.

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Troubleshooting

Trouble	Cause	Solution
STANDBY indicator did not light	Power cord is not plugged in Burnout fuse	Check the power cord Contact with service
Out of signal	Antenna is not connected to receiver Incorrect direction of antenna or antenna damaged	Check aerial cord Change aerial direction
No sound or video	Video source option in TV is wrong	Choose SCART/AV video source option on TV
Unclear subtitles	Poor signal level	Change aerial direction Reset channel list
Remote control doesn't work	Receiver is turned off Incorrect remote direction IR receiver is not visible by IR remote Batteries are discharged or incorrectly installed	Turn on receiver Correct direction of remote Remove obstacle Change or correct batteries installation
Lost channel lock password		Prescan all channels again
Lost menu lock password		Contact with Media-Tech helpdesk
Out of signal after installing device in other place	Antenna with longer cord need more power	Use external power supply for antenna

Technical Specification

Tuner	RF Input (IEC-TYPE, IEC 169-2, female) RF Output RF (IEC-TYPE, IEC 169-2, male) Frequency range: 174~230MHz (VHF) 470~862MHz (UHF) Signal Level: -15~-70dbm
Decoder:	
Video Decoder	MPEG-1/MPEG-2 MP@ML/MPEG-4 AVC/H.264 HP@L3
Audio Decoder	MPEG-1 Layer 1.2/PCM/HE-AAC v.1.0
Transfer Speed	Max 15 Mbit/s
Aspect Ratio	4:3/16:9
Audio Formats	MPEG Layer I & II, 32/44.1/48 kHz
Video Output	CVBS, RGB
Connectors:	
Antenna	RF output x 1, RF input x 1
Video	HDMI, SCART, CVBS Composite Video, YPbPr Component Video
Audio	Composite Audio, Coaxial Digital Audio
Data	USB
Power:	
Input Voltage	AC 220~240V, 50/60Hz
Power Consumption	Max 8W

Note! Design and equipment specifications are subject to change without notice.